

computer readable form of the "Sequence Listing" are the same and, as required by 37 C.F.R. §1.821(g), also states that the submission includes no new matter.

Please amend the application as follows:

In the Specification

Please add the following paragraph at page 1, line 5:

This application is a continuation of U.S. Serial No.: 09/063,311, filed April 20, 1998, now abandoned.

Please replace the paragraph at page 42, lines 5 through 8 with the following paragraph

"control" array:

background: [substrate]-OPO₂⁽⁻⁾O(CH₂CH₂O)₆^{-MeNPOC} (unphotolysed)
 foreground: [substrate]-O[PO₂⁽⁻⁾O(CH₂CH₂O)₆]-OPO₂⁽⁻⁾-
 (3'GACTTGCCATCGTAGAACTG5'(SEQ ID NO:1))

Please replace the paragraph at page 42, lines 25 through 29 with the following paragraph:

test arrays:

background: [substrate]-O[PO₂⁽⁻⁾O(CH₂)₃O]_m(PO₂⁽⁻⁾O(CH₂CH₂O)₆)_nOPO₂
 O^{3'}(G)^{5'OH}
 foreground: [substrate]-O[PO₂⁽⁻⁾O(CH₂)₃O]_m(PO₂⁽⁻⁾O(CH₂CH₂O)₆)_nOPO₂⁽⁻⁾
 O^{3'}(GACTTGCCATCGTAGAACTG5'(SEQ ID NO:1))

Please replace the paragraph at page 43, lines 1 through 6 with the following paragraph:

Array hybridization: The control and test arrays were then hybridized with a solution of the complementary 5'-biotinylated target oligonucleotide (5'-CTGAACGGTAGCATCTTGAC3' (SEQ ID NO:2)) and the bound oligonucleotide target was then "stained" with a solution of phycoerythrin-streptavidin conjugate ("SAPE", Molecular Probes, Inc.) Using the following standard GeneChip™ protocols on an Affymetrix hybridization station:

Please replace the paragraph at page 45, lines 1 through 5 with the following paragraph:

The "control" array was prepared exactly as described for the control arrays in Example 1:

background: [substrate]-OPO₂⁽⁻⁾O(CH₂CH₂O)₆^{-O-MeNPOC} (non-photolysed)

foreground: [substrate]-O[PO₂⁽⁻⁾O(CH₂CH₂O)₆]-OPO₂⁽⁻⁾O-(3'-GACTTGCCATCGTAGAACTG5' (SEQ ID NO:1))

Please replace the paragraph at page 45, lines 12 through 14 with the following paragraph:

background: [substrate]-OPO₂⁽⁻⁾O(CH₂CH₂O)₆^{-OH} (photolysed)

foreground: [substrate]-O[PO₂⁽⁻⁾O(CH₂CH₂O)₆]-OPO₂⁽⁻⁾O-(3'-GACTTGCCATCGTAGAACTG5' (SEQ ID NO:1))

Please replace the paragraph at page 45, lines 19 through 21 with the following paragraph:

background: [substrate]-O[PO₂⁽⁻⁾O(CH₂)₃O]_m(PO₂⁽⁻⁾O(CH₂CH₂O)₆)-OPO₂⁽⁻⁾O-3'-(G)^{5'OH}

foreground: [substrate]-O[PO₂⁽⁻⁾O(CH₂)₃O]_m(PO₂⁽⁻⁾O(CH₂CH₂O)₆)-OPO₂⁽⁻⁾O^{3'}
(GACTTGCCATCGTAGAACTG^{5'OH}(SEQ ID NO:1))

Please replace the paragraph at page 45, line 24 through page 46, line 2 with the following paragraph:

Hybridization: Arrays were hybridized with a solution of the complementary 5'-biotinylated target oligonucleotide (5'-CTGAACGGTAGCATCTTGAC3'(SEQ ID NO:2)) spiked into a GeneChip test sample at 100pM final concentration. The GeneChip test sample was prepared according to protocols provided with the Affymetrix P450 assay kit package insert. It is essentially prepared from an unpurified multiplex PCR reaction, which is fragmented with DNase-I, and labelled with biotin dideoxyATP in the presence of terminal transferase. In some cases, 1 mg/ml of bovine serum albumen (BSA) was also included in the sample to examine its ability to provide further reduction in the NSB. Hybridization, SAPE staining, washing and scanning were performed as described in Example 1 above.

Amendments to the specification are indicated in the attached "Marked Up Version of Amendments" (pages i - iii).